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(54) **ENHANCING THE EFFECT OF CAR-ENGINEERED T CELLS BY MEANS OF NUCLEIC ACID VACCINATION**

(57) The present invention generally embraces the treatment of diseases by targeting cells expressing an antigen on the cell surface. In particular the invention relates to a method for stimulating, priming and/or expanding *in vivo* T cells genetically modified to express a

chimeric antigen receptor (CAR) targeted to an antigen, comprising contacting the T cells with the antigen or a variant thereof *in vivo*. In one embodiment, the antigen or variant thereof is provided by administering a nucleic acid encoding the antigen or variant thereof.

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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	HUI-RONG JIANG ET AL: "Combination of Vaccination and Chimeric Receptor Expressing T Cells Provides Improved Active Therapy of Tumors", JOURNAL OF IMMUNOLOGY, vol. 177, no. 7, 1 October 2006 (2006-10-01), pages 4288-4298, XP055184895, DOI: 10.4049/jimmunol.177.7.4288 * the whole document *	1-15	INV. A61K39/00 A61K35/17 C07K14/725
A	X. WANG ET AL: "CMVpp65 Vaccine Enhances the Antitumor Efficacy of Adoptively Transferred CD19-Redirected CMV-Specific T Cells", CLINICAL CANCER RESEARCH, vol. 21, no. 13, 2 April 2015 (2015-04-02), pages 2993-3002, XP055247174, US ISSN: 1078-0432, DOI: 10.1158/1078-0432.CCR-14-2920 * abstract * * page 2296, column 2, last paragraph - page 2297 *	1-15	TECHNICAL FIELDS SEARCHED (IPC) A61K C07K
The present search report has been drawn up for all claims			

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CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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